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PN - JP2000316219 A 20001114
PD - 2000-11-14
PR - JP19990119890 19990427
OPD - 1999-04-27
TI - ELECTRIC CONNECTION BOX
IN - SAITO NORIYOSHI
PA - SUMITOMO WIRING SYSTEMS
IC - H02G3/14 ; H05K5/06

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TI - Junction box used in motor vehicle, includes case and cover of double walled structure with elastic piece inwardly protruding from external wall of case to fit case and cover during assembly

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PA - (SUME) SUMITOMO DENSO KK

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AB - JP2000316219 NOVELTY - Peripheral wall (12b) of a cover (12) has a double walled structure with internal and external walls (13-1,13-2). Peripheral wall of the case (4) has a double walled structure having external and internal walls (15-1,15-2). An inclined protruding elastic piece (17) is provided in the wall (15-1), so that during insertion of wall (13-1) between the case walls, the piece fits cover and case tightly.

- USE - Junction box is used in engine room of motor vehicle.
- ADVANTAGE - Water proofness of box is improved and rattling is prevented by the fitting piece assembly of case and cover is easier due to the double walled structure.
- DESCRIPTION OF DRAWING(S) - The figure shows the cross section of the case and cover before and after assembly.
- Case 4
- Cover 12
- Peripheral wall 12b
- Internal and external walls 13-1,13-2
- External and internal walls 15-1,15-2
- Elastic pieces 17
- (Dwg.1/5)

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- PA - SUMITOMO WIRING SYST LTD
- TI - ELECTRIC CONNECTION BOX
- AB - PROBLEM TO BE SOLVED: To prevent generation of backlash in the engaging state of the cover of an electric connection box with its main-body case.
- SOLUTION: A peripheral wall 12b of a cover 12 of an electric connection box 10 is formed doubly out of an inner cover wall 13-1 and an outer cover wall 13-2, and a peripheral wall 14b of a main-body case 14 of the electric connection box 10 is formed double out of an inner main-body wall 15-2 and an outer case wall 15-1 to protrude an elastic piece 17 obliquely downward from an inside wall surface 15-1a of the outer case wall 15-1. After interposing the inner cover wall 13-1 between the outer case wall 15-1 and the inner main-body wall 15-2, by contacting the elastic piece 17 with the inner cover wall 13-1 to deflect the elastic piece 17, the inner cover wall 13-1 and the outer case wall 15-1 are deflected respectively to eliminate clearances S1, S2.
- I - H02G3/14 ;H05K5/06